|       | I THE PRINT IT IN COMMITTEE AND A STATE AN |                        |              |              |               |               |                |          |               |          |            |                 |              |            |               |              |  |              |           |             |                |                | Reexamination |                     |         |    |          |            |          |   |           |    |
|-------|--|------------------------|--------------|--------------|---------------|---------------|----------------|----------|---------------|----------|------------|-----------------|--------------|------------|---------------|--------------|--|--------------|-----------|-------------|----------------|----------------|---------------|---------------------|---------|----|----------|------------|----------|---|-----------|----|
|       |  |                        |              |              |               |               |                |          |               |          |            |                 |              | 10/708,068 |               |              |  |              |           |             |                |                |               | KOERNER ET AL.      |         |    |          |            |          |   |           |    |
|       |  |                        |              |              |               |               |                |          |               |          |            |                 |              | Examiner   |               |              |  |              |           |             |                |                |               | t Un                |         |    |          |            |          |   |           |    |
|       |  |                        |              |              |               |               |                |          |               |          |            |                 |              |            | John T. Kusan |              |  |              |           |             |                |                |               | 3747                |         |    |          |            |          |   |           |    |
|       |  |                        | _            |              |               |               | —              |          |               |          |            |                 |              |            |               | John T. Kwon |  |              |           |             |                |                |               |                     |         | 41 |          |            |          |   |           |    |
|       |  |                        | خ            | _            |               |               | $\neg$         |          | -             |          |            |                 |              |            |               |              |  |              |           |             |                |                |               |                     |         |    |          |            |          |   |           |    |
|       | •••  |                        | V            | Rejected     |               |               |                |          |               | _        | (1         | hrou            | prondp unmer |            |               | al)          |  |              | No        | on-E        | lec            | ted            |               |                     | Appeal  |    |          |            |          |   |           |    |
|       |  |                        | ┕            |              |               |               | $\dashv$       |          |               |          |            | Cancelled       |              |            |               | -            | 1  | N            |           |             |                |                |               | Δ                   |         |    |          |            |          |   |           |    |
|       |  |                        | =            |              | Allowed       |               |                |          |               | +        | Restricted |                 |              | 1          | 1             |              | ,  | Interference |           |             |                | 0              | Objected      |                     |         |    |          |            |          |   |           |    |
|       | , and the second |                        |              |              |               |               |                |          |               |          |            |                 |              |            |               |              |  |              |           |             | `              | Juj.           | 5CU           |                     |         |    |          |            |          |   |           |    |
|       |  | Claim Date Claim       |              |              |               |               |                |          |               |          |            |                 |              |            |               |              |  |              |           | _           |                | · .            | ,             | B-4-                |         |    |          |            |          |   |           |    |
|       | Cla  | im                     | ┝            | Date         |               |               |                |          |               |          |            | CL              | aim          | <u> </u>   | _             | Date         |  |              | _         | <del></del> | 4              | Claim          |               | ١.                  | Date    |    |          |            | _        | _ | $\dashv$  |    |
|       | ᇜ  | a                      |              | 8            | 8             |               |                |          |               |          |            | =               | 쿌            | H          | -             |              |  |              |           | 1           | -              | _              | Ta Ta         |                     |         |    |          |            |          |   | П         |    |
|       | Final  | Original               |              | 6/16/05      | 9/21/06       |               |                |          |               |          |            | Finat           | Original     |            | -             |              | L  | 1            |           | 1           | İ              | Final          | Original      |                     |         |    | 1        | '          |          |   |           |    |
|       |  | ο.                     |              | 9            | 8             |               |                |          |               |          |            | L               | 0            |            | -             | ı            |  |              |           |             | İ              |                | 0             |                     |         |    |          |            |          |   |           |    |
|       |  | 1                      |              | Ш            | I             |               | $\exists$      | -        | Ī             |          |            |                 | 51           | П          | $\Box$        | $\perp$      | П  |              | $\Box$    |             | ]              |                | 101           |                     |         |    |          |            |          |   |           |    |
|       |  | 3                      | $\vdash$     | Н            | Н             | Н             | $\dashv$       | A        | _             | -        | _          | <u> </u>        | 52           | $\dashv$   | +             | +            | ╀  |              | $\dashv$  | -           | 4              |                | 102           | H                   | -       | +  | ╄        | ┡          | $\vdash$ | Н | Н         |    |
|       | _  | 3                      | H            | Н            | Н             | ╌┤            | <del>- }</del> | $\dashv$ | -             | Н        | $\dashv$   | ⊢               | 53<br>54     | Н          | ╁             | ╁            | ╁  | -            | $\dashv$  | +           | ┨              | <u> </u>       | 103<br>104    | H                   | ╁       | +- | ╁        | ╁╌         |          |   | Н         |    |
|       |  | 5                      | H            |              | Н             | $\dashv$      | /              | $\dashv$ | _             |          | $\neg$     | ┢               | 55           | H          | +             | +            | T  |              | $\dashv$  | +           | 1              | _              | 105           |                     | $\top$  | +  | H        | H          | Н        |   | П         |    |
|       |  | 6                      |              | $\mathbf{Z}$ |               | 7             |                |          |               |          |            |                 | 56           |            |               | 1            |  |              |           |             | 1              |                | 106           |                     | Ī       | T  | İ        |            |          |   |           |    |
|       |  | 7                      | L            |              | J             | Д             | $\supset$      | $\Box$   |               |          |            |                 | 57           |            | $\Box$        | $\perp$      | Ц  |              | $\Box$    |             | ]              |                | 107           | П                   | $\perp$ | I  |          |            |          | П |           |    |
|       | $\vdash$   | 8                      | <b> -</b>    | Н            | X             |               | $\dashv$       | -1       | _             |          | _          | ⊢               | 58           | Н          | 4             | 4            | ╀  |              | $\dashv$  | _           | -              | $\vdash$       | 108           | Н                   | 4       | +  | ╄        | ┡          | _        |   | Н         | 34 |
|       | -  | 10                     | ┝            | Н            | А             | $\vdash$      | ╗              | $\dashv$ | -             |          |            | ├               | 59<br>60     | Н          | +             | +            | ╁  |              | $\dashv$  | +           | ┨              | $\vdash$       | 109<br>110    | $\vdash$            | +       | ╁  | ╁┈       | ┝          | Н        | Н | Н         |    |
|       | _  | 11                     | $\vdash$     | 7            | Н             | $\mathcal{A}$ | $\dashv$       | _        |               |          | 7          | $\vdash$        | 61           | H          | 十             | +            | Н  |              | $\dashv$  | +           | 1              | -              | 111           | Н                   | _       | 十  | ╈        | -          |          | Н | Н         |    |
|       |  | 12                     |              |              |               |               | $\Box$         |          |               |          |            |                 | 62           | ◨          | 土             | 1            | $oldsymbol{ol}}}}}}}}}}}}$ |              |           |             | 1              |                | 112           |                     | 士       | T  | L        |            |          |   |           |    |
|       |  | 13                     | Z            |              |               | $\Box$        | $\mathbf{Z}$   | $\Box$   |               |          |            |                 | 63           |            | $\perp$       | $\perp$      | $\Box$   | П            |           | II.         | ].             |                | 113           |                     |         | 工  |          |            |          |   | $\square$ |    |
|       |  | 14<br>15/              | <b>/</b>     | Н            |               | -             | [              | V        | _             | $\dashv$ |            |                 | 64           | $\vdash$   | +             | ┿            | ╀  |              | $\dashv$  | +           | 4              | $\vdash$       | 114           | Н                   | +       | +  | ┼        | $\vdash$   |          | Н | Н         |    |
|       |  | 16                     | -            | Н            | Н             | $\dashv$      | ╛              | 긤        | $\mathcal{A}$ | $\dashv$ | $\dashv$   |                 | 65<br>66     | $\dashv$   | +             | +            | ╁  | Н            | -         | +-          | ┨              |                | 115<br>116    | Н                   | ╁       | ╁  | +        | ┢          | $\vdash$ | H | Н         |    |
|       |  | 矢                      | E            |              |               | =             | #              | =        |               | Z        | _          |                 | 67           | $\Box$     | 十             | 十            | $\top$   |              | $\dashv$  | 十           | 1              |                | 117           | $\Box$              | ╅       | +- | +-       | ┢          |          | H | П         |    |
|       |  | 18                     |              | 7            | >             |               | $\Box$         |          |               |          |            |                 | 68           |            | 1             |              |  |              |           | 工           | ]              |                | 118           |                     | I       |    |          |            |          |   |           |    |
|       |  | 19                     |              | H            | >>            | _             | 4              |          |               |          | _          | <u> </u>        | 69           | Н          | 4             | 4-           | ╄  |              | $\dashv$  | ┷           | 1              | $\vdash$       | 119           | Ш                   | 4       | 4- | ↓_       | ļ          | Щ        | Ш | Н         |    |
|       | -  | 20<br>21               | -            | 70           | V             | $\dashv$      | $\dashv$       | ᅱ        | -             | -        | -          |                 | 70<br>71     | $\vdash$   | +             | +            | +  | Н            | $\dashv$  | +           | ┨              | $\vdash$       | 120<br>121    | ╀┼                  | ┿       | ┿  | ╁        | ╁          |          | Н | Н         |    |
|       |  | 22                     | ┢            |              | V             | -             | _              | +        | $\exists$     | $\dashv$ | $\dashv$   | -               | 72           | Н          | +             | +            | ╁  |              | $\dashv$  | +           | ┨              | $\vdash$       | 122           | H                   | +       | +  | +        | $\vdash$   | $\vdash$ | Н | Н         |    |
| :     |  | 23                     |              | 0            | V             |               | コ              |          |               |          | _          |                 | 73           |            | 土             | 1            |  |              |           |             | 1              |                | 123           |                     |         |    |          |            |          |   |           |    |
|       |  | 24                     |              | 1            | ٧             | $\Box$        | _              |          |               |          | _          |                 | 74           | $\dashv$   |               |              | Ш  |              |           |             | ]              |                | 124           | Ц                   |         | 1  | L        | $\Box$     | Ц        |   | П         |    |
|       |  | 25<br>26               | H            | Н            | ₹             | $\dashv$      | $\dashv$       | -        |               |          | $\dashv$   | <u> </u>        | 75<br>76     | Н          | +             | +            | ╀  | Ш            | $\dashv$  | +           | 4              |                | 125<br>126    | ${f H}$             | +       | ┿  | ╀        | -          | Н        | Н | Ы         |    |
|       |  | 27                     | Н            |              | Ť             |               | $\dashv$       | -        | -             |          | -          |                 | 77           | $\vdash$   | ╅             | +            | $\vdash$   | Н            | -         | ╫           | 1              | $\vdash$       | 127           | ╂╼╂                 | +       | +  | ╁        | ╁          | H        | Н | Н         |    |
|       |  | 28                     | Н            | J            | ν             | _             | 寸              | $\dashv$ | 7             |          | ┪.         |                 | 78           |            | $\dashv$      | ╅            | Н  | Н            | +         | +           | 1              | -              | 128           | $\Box$              | $\top$  | +  | ┿        | ┼          |          | Н | П         |    |
| ł     |  | 50                     | H            | П            |               | $\supset$     | 耳              | $\Box$   |               |          |            |                 | 79           |            | T             | T            |  |              |           |             | 1              |                | 129           |                     |         | T  |          |            |          |   |           |    |
| İ     |  | 30                     | L            | Н            |               | 7             | -              | -        | _             | $\dashv$ | 4          |                 | 80           | $\sqcup$   | 4             | ╀            | 1  |              | 4         |             | 1              |                | 130           | 1                   | 4       | +  | _        | 1          | _        | Ш | Ш         |    |
|       | _  | 31\<br>32              |              | Н            | 7             | $\dashv$      | ┥              | -        | $\dashv$      | -        | $\dashv$   |                 | 81<br>82     | $\dashv$   | +             | ╫            | $\vdash$   | $\vdash$     | -+        | ╌           | ┨              | $\vdash$       | 131<br>132    | $\vdash$            | ┰       | ╁  | ╁        | ┢          | Н        | Н | ┌─┤       |    |
| 13/25 |  | 33                     | )            | d            | $\mathcal{A}$ | ┪             | 十              | ┪        |               | $\dashv$ | $\dashv$   |                 | 83           | $\dashv$   | +             | +            | $\vdash$   | $\vdash$     | $\dashv$  | ╅           | 1              | -              | 133           | ╁                   | +       | ╁  | ╁        | 一          | Н        | Н | Н         |    |
|       |  | 34                     |              | Ň            |               | $\Box$        | コ              |          |               |          |            |                 | 84           |            | 1             |              | $\Box$   |              | $\Box$    |             | 1              |                | 134           |                     | T       | I  |          |            |          |   |           |    |
|       |  | 35                     | $\mathbf{N}$ |              | 7             |               | $\dashv$       | $\Box$   |               |          |            |                 | 85           | $\Box$     | $\perp$       | Ţ            | П  |              | $\Box$    |             | ]              |                | 135           |                     | $\bot$  | Ţ  |          |            |          | П |           |    |
|       |  | -8 <del>8</del><br>37. |              |              | ⊽             | 7             | $\dashv$       |          | $\dashv$      | $\dashv$ | -          | <u> </u>        | 86<br>87     | -          | ╬             | ╀            | 1-   |              | $\dashv$  |             | ┨              | $\vdash$       | 136<br>137    | $\vdash$            | -       | ╫  | ╄        | ⊢          | Н        | Н | $\dashv$  |    |
|       |  | 38                     |              | Н            | Ť             | ┪             | ┰┼             | -        | $\dashv$      | -        | $\dashv$   | H               | 88           | $\dashv$   | +             | ╁            | $\vdash$   | Н            | $\dashv$  | +-          | ┨              | -              | 138           | $\vdash$            | +       | ┿  | ┢        | ┢          | Н        | Н | Н         |    |
|       |  | 39                     |              | Н            | v             | ┪             | 十              | ᅥ        | $\dashv$      | ᅥ        | $\dashv$   | $\vdash$        | 89           | $\dashv$   | +             | +            | H  | $\dashv$     | -         | +           | 1              |                | 139           | H                   | 十       | 十  | $\vdash$ |            | Н        | H | $\sqcap$  |    |
|       |  | 40                     |              |              | V             | 1             | コ              | 二        |               |          |            |                 | 90           |            |               |              |  |              | $\Box$    |             | ]              |                | 140           |                     | 土       |    |          |            |          |   |           |    |
|       |  | 41                     | _            |              | ٧             | -             | 4              | 4        | _             |          | _          |                 | 91           | 4          | 4-            | 1            | Ш  |              | 4         | 1           | 1              |                | 141           | Ш                   | 4       | 4  | ↓_       | <b> </b> _ | Ш        | Ш | Н         |    |
|       |  | 42<br>43               | Н            | $\vdash$     | V<br>V        | +             | $\dashv$       | $\dashv$ | -             | $\dashv$ | $\dashv$   | <b> </b>        | 92<br>93     | $\dashv$   | +             | +            | +  | $\dashv$     | $\dashv$  | +           | ┨              | $\vdash\vdash$ | 142<br>143    | ${oldsymbol{dash}}$ | ╫       | ╁  | +-       | -          | Н        | Н | $\dashv$  | ,  |
|       |  | 44                     | H            | $\dashv$     | Ť             | ┪             | +              | ┥        | -             | ᅱ        | $\dashv$   | $\vdash \vdash$ | 94           | $\dashv$   | +             | +            | Н  | Н            | +         | ╅           | 1              | $\vdash$       | 144           | $\vdash \vdash$     | 十       | +  | 1        |            | H        | H | $\dashv$  |    |
|       |  | 45                     |              |              | ν             |               | コ              | ╛        |               | J        | $\Box$     |                 | 95           |            | 1             |              |  |              | コ         | 上           | 1              |                | 145           | 口                   | 士       | 1  |          |            |          |   |           |    |
|       |  | 46                     |              | Ц            | V             | J             | コ              | コ        |               | $\Box$   | 口          |                 | 96           | $\Box$     | $\bot$        | T            | П  |              | $\Box$    | I           | 1              |                | 146           | П                   | T       | I  |          | _          | Ц        | П | 口         |    |
|       | -  | 47<br>48               | Н            | $\vdash$     | <b>∨</b> ∨    | 4             | -+             | 4        | -             | -        | $\dashv$   |                 | 97<br>98     | $\dashv$   | +             | +            | $\vdash$   | $\vdash$     | $\dashv$  | +           | $\blacksquare$ | $\vdash$       | 147           | $\vdash \vdash$     | +       | +  | -        | -          | Н        | Н | $\dashv$  |    |
|       | $\vdash$   | 49                     | Н            | $\dashv$     | V             | ┥             | 十              | $\dashv$ | $\dashv$      | $\dashv$ | $\dashv$   | <del> </del>    | 99           | $\dashv$   | +             | +            | Н  | Н            | $\dashv$  | ┿           | ┨              | $\vdash$       | 148<br>149    | +                   | +       | +  | +        | $\vdash$   | Н        | H | $\dashv$  | ,  |
|       |  | 50                     |              |              | Ÿ             | ╛             | 士              | Ⅎ        |               |          | _          |                 | 100          |            | 士             | 士            | 廿  |              | $\exists$ | 1           | 1              |                | 150           | 口                   | 士       | 1  | 上        |            |          |   |           |    |

Application/Control No.

Applicant(s)/Patent under